

### 1. Company and Product Identification

1.1	Kfgpvkhkecvkqp"ó"Rtqfwev" P c o g <"	<b>MC-L403</b>
1.2	Qv jgt" o gcpu"qh"kf gpvkhkecvkqp" U{pqp{ o <"	Okzvwgt."pqp g
1.3	Tgeq o o g p f g f" Wug" Qh" V j g" E j g o k e c n" c p f" T g u v t k e v k q p u" Q p" W u g <" P c o g." C f f t g u u." C p f" V g n g r j q p g" P w o d g t" Q h" V j g" O c p w h c e v w t g t." Q t" Q v j g t" T g u r q p u k d n g" R c t v { <"	T g x g t u g" q u o q u k u" o g o d t c p g" e n g c p g t" W u g" q p n { " c u" f k t g e v g f" q p" v j g" n c d g n 0
1.4		<b>Anderson Chemical Company</b> 325 South Davis Avenue Litchfield, MN 55355 (320) 693-2477
1.5	46" J q w t" G o g t i g p e { " P q 0 k"	1-800-424-9300 (United States)



DRINKING WATER TREATMENT ADDITIVES CLASSIFIED BY NSF INTERNATIONAL TO ANSI/NSF 60 AS STANDARD DRINKING WATER TREATMENT CHEMICAL FOR USE OFF-LINE IN REVERSE OSMOSIS SYSTEMS

### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** This product is a clear, colorless to amber liquid. Depending on the duration of contact, over-exposures can moderately to severely irritate the skin or eyes, or cause burns. This product is neither reactive nor flammable. Thermal decomposition of this product produces irritating vapors and toxic gases (e.g. carbon monoxide, carbon dioxide, phosphorous oxides, and sodium oxide). Emergency responders must wear personal protective equipment (and have appropriate fire-extinguishing protection) suitable for the situation to which they are responding.

403"	R j { u k e c n" J c   c t f u" U w o o c t { " P q p g" R q v g p v k c n" J g c n v j" J c   c t f u" U w o o c t { " R q v g p v k c n" G e q n q i k e c n" G h h g e v u" U w o o c t { " E n c u u k h k e c v k q p" q h" R t q f w e v W 0 U 0" Q U J C" e n c u u k h k e c v k q p" E n c u u k h k e c v k q p" c u" r g t" G E" 3 4 9 4   4 2 2 : " * E N R I I J U + "	C e w v g" Q t c n" V q z k e k v { ". e c v g i q t { " 6" U m k p" k t t k v c v k q p. " e c v g i q t { " 4 D" G { g" k t t k v c v k q p" e c v g i q t { " 4 C" U V Q V" t g r g c v g f" g z r q u w t g" e c v g i q t { " 4" V j g" e q o r q p g p v u" q h" v j k u" r t q f w e v" y k n n" f g e q o r q u g" k p v q" q v j g t" q t i c p k e" c p f" k p q t i c p k e e q o r q w p f u" q x g t" v k o g" w p f g t" p q t o c n" g p x k t q p o g p v c n" e a p f k v k q p u" C e w v g" Q t c n" V q z k e k v { ". e c v g i q t { " 6" U m k p" k t t k v c v k q p. " e c v g i q t { " 4 D" G { g" k t t k v c v k q p" e c v g i q t { " 4 C" U V Q V" t g r g c v g f" g z r q u w t g" e c v g i q t { " 4" C e w v g" Q t c n" V q z k e k v { ". e c v g i q t { " 6" U m k p" k t t k v c v k q p. " e c v g i q t { " 4 D" G { g" k t t k v c v k q p" e c v g i q t { " 4 C" U V Q V" t g r g c v g f" g z r q u w t g" e c v g i q t { " 4"
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Y J O K U "encuukhkecvkqp" Cewg"Qtcn"Vqzkekv{"ecvgiqt{"6"  
 Umkp"kttkvcvkqp."ecvgiqt{"4D"  
 G{g"kttkvcvkqp"ecvgiqt{"4"C"  
 UVQV"tgrgcvgf"gzrquwtg"ecvgiqt{"4"

J c | c t f q w u " O c v g t k e n u " k p h q t o c v k q p "  
 U { u v g o " " \* J O K U + " T c v k p i "

<b>Health</b>	<b>2</b>
<b>Flammability</b>	<b>0</b>
<b>Physical Hazard</b>	<b>0</b>
<b>Protective Equipment</b>	<b>C</b>

2.2 Ncdgn"Gng o gpvu"QUJCI IJU"

I g p g t c n " Y c t p k p i u "	R323"	Kh" o g f k e c n " c f x k e g " k u " p g g f g f . " j c x g " r t q f w e v " e q p v c k p g t " q t " n c d g n " c v " j c p f 0 "
	R324"	Mggr"qww"qh"tgcej"qh"ejknftgp0"
	R325"	Tgcf"ncdgn"dghqtg"wug"
	R625"	Uvqtg"kp" c " y g m n / x g p v k n c v g f " r n c e g 0 "
	R455"	Mggr"eqpvckpgt"vkijvn{"enqugf"
U k i p c n " Y q t f "	YCTPKPI#	
J c   c t f " u v c v g o g p v u "	J53;"	KH"KP"G [GU<"Tkpug"ecwvkqwn{"ykvj"ycvgt"hqt"ugxgtcn"okpwwgu0" Tg o q x g " e q p v c e v " n g p u g u . " k h " r t g u g p v " c p f " g c u { " v q " f q 0 " E q p v k p w g " t k p u k p i 0 "
	J"534"	Jct o hwn"kp"eqpvcev"ykvj"umkp"
	J554"	Jct o hwn"kh"kpjcnfgf"
	J536"	Ecwugu"ugxgtg"umkp"dwtpu"cpf"gg"fcocig"
Rtgecvkqpct{"uvcvgogpvu"	R4:2"	Ygct"rtqvgevkxg"inqxgulrtqvgevkxg"enqvjkpilg{g"rtqvgevkqplhceg"rtqvgevkqpl0"
	R527"	KH"KP"G [GU<"tkpug"gzvvpukxgn{"ykvj"nctig"coqwpvu"qh"ycvgt"
	R573"	Tkpug"ecwvkqwn{"ykvj"ycvgt"hqt"ugxgtcn"okpwwgu0"
	R55:"	Tg o q x g " e q p v c e v " n g p u g u . " k h " r t g u g p v " c p f " g c u { " v q " f q 0 " E q p v k p w g " t k p u k p i 0 "
	R532"	KH"KP I G U V G F " q t " K P J C N G F " K o o g f k c v g n { " e c n n " c " R Q K U Q P " E G P V G T " q t " f q e v t l r j { u k e c p 0 "

J c | c t f " r k e v q i t c o u "



2.3 Wpencuukhkgf"Jc|ctfu" Pqpg"

2.4 kpi t g f k g p v u " y k v j " w p m p q y p " c e w v g " P q p g "  
 vqzkekv{"

### 3. COMPOSITION and INFORMATION ON INGREDIENTS

Chemical name CAS # EINECS #	% w/w	US OSHA	GHS/EU CLP	WHMIS
k p q t i c p k e " r j q r j q t q w u " e q o r q w p f " Rtqrtgvet{" Rtqrtgvet{"	47/57"	Cewg" Qtcn" Vqzkekv{" ecvgiqt{"6" Umkp"kttkvcvkqp."ecvgiqt{"4D" G{g"kttkvcvkqp"ecvgiqt{"4D" UVQV" tgrgcvgf" gzrquwtg" ecvgiqt{"4" Zp"Jct o hwn="	Cewg"Qtcn"Vqzkekv{"ecvgiqt{"6" Umkp"kttkvcvkqp."ecvgiqt{"4D" G{g"kttkvcvkqp"ecvgiqt{"4D" UVQV" tgrgcvgf" gzrquwtg" ecvgiqt{"4" Zp"Jct o hwn="	Cewg"Qtcn"Vqzkekv{"ecvgiqt{"6" Umkp"kttkvcvkqp."ecvgiqt{"4D" G{g"kttkvcvkqp"ecvgiqt{"4D" UVQV" tgrgcvgf" gzrquwtg" ecvgiqt{"4" Zp"Jct o hwn="

Ejgncv" Rtqrtkgvct{" Rtqrtkgvct{"	47/57"	G{g"kttkvcpv."Ecvgiqt{"4C"	G{g"kttkvcpv."Ecvgiqt{"4C"	G{g"kttkvcpv."Ecvgiqt{"4C"
Qti cple"cekf" Rtqrtkgvct{" Rtqrtkgvct{"	32/42"	kttkvcpv."Ecvgiqt{"4"	kttkvcpv."Ecvgiqt{"4"	kttkvcpv."Ecvgiqt{"4"
Rtqfwew"	322"	Cewvg"Qtcn"Vqzkekv{"."ecvgiqt{"6" Umkp"kttkvckqp."ecvgiqt{"4D" G{g"kttkvckqp"ecvgiqt{"4"C" UVQV"tgrgcvgf"gzrquwtg"ecvgiqt{"4"		

PG"?Pqv"Guvedhiku jgf0""E"?Egknkpi"Nk o kv0""Ugg"Ugevkqp"38"hqt"Fghkpkvkqpu"qh"Vgt o u"Wugf.

## 4. FIRST-AID MEASURES

603" Fguetkrvkqp"qh"Pgeguuct{"Ogcuwgtu"

Umkp"gzrquwtg<"" Kh"vjku"rtqfwew"eqpvc o kpcvgu"vjg"umkp."k o o g f k c v g n { " d g i k p " f g e q p v c o k p c v k q p " y k v j " t w p p k p i " y c v g t 0 " " T g o q x g " g z r q u g f " q t " e q p v c o k p c v g f " e n q v j k p i . " v c m k p i " e c t g " p q v " v q " e q p v c o k p c v g " g { g u 0 " " X k e v k o " u j q w n f " u g g m " k o o g f k c v g " o g f k e c n " c w g p v k q p " k h " c p { " c f x g t u g " g z r q u w t g " u { o r v q o u " f g x g n q r 0 "

G{g"gzrquwtg<"" Kh"vjku"rtqfwew"gpvgtu"vjg"gu."qrgp"xkevko"u"gu"y jkng"wpfgt"igpvn{"twppkpi" y cvgt0""Wug"uw h h k e k g p v " h q t e g " v q " q r g p " g { g n k f u 0 " " J c x g " x k e v k o " \$ t q m \$ " g { g u 0 " " O k p k o w o " h n w u j k p i " k u " h q t " 3 7 " o k p w g u 0 " " X k e v k o " o w u v " u g g m " o g f k e c n " c w g p v k q p 0 "

Kpjcnckvqp<"" Kh"okv"qh"vjku"rtqfwew"ctg"kpjcnvgf."tgoqxg"xkevko"vq"htguj"ckt0""Kh"pgeguuct{"."wug" ctvkhkecn" t g u r k t c v k q p " v q " u w r r q t v " x k v c n " h w p e v k p p u 0 " " T g o q x g " q t " e q x g t " i t q u u " e q p v c o k p c v k q p " v q " c x q k f " g z r q u w t g " v q " t g u e w g t u 0 "

Kpiguvkqp<"" Kh"vjku"rtqfwew"ku"uycmqygf."ECNN"R J [ UKEKCP"QT"RQKUQP"EQPVTON"EGPVGT" HQT" OQUV"EWTTGPV"KPHQTOCVKQP0" " FQ" PQV"KPFWEQ" XQOKVKP I 0 "" J c x g " x k e v k o " t k p u g " o q w v j " y k v j " y c v g t . " k h " e q p u e k q w u 0 " " P g x g t " k p f w e g " x q o k v k p i " q t " i k x g " c " f k n w g p v " \* g 0 i 0 . " y c v g t + " v q " u q o g q p g " y j q " k u " w p e q p u e k q w u . " j c x k p i " e q p x w n u k q p u . " q t " w p e d n g " v q " u y c m q y 0 " " K h " e q p v c o k p c v g f " k p f k x k f w c n " k u " e q p x w n u k p i . " o c k p v c k p " c p " q r g p " c k t y c { " c p f " q d v c k p " k o o g f k c v g " o g f k e c n " c w g p v k q p 0 "

604" Oquv"Ko rqtvcpv"U{ o rvq o ulGhhgevu<"

K o o g f k c v g < " K p j c n c v k q p " g z r q u w t g " o c { " e c w u g " e q w i j k p i " q t " u p g g | k p i 0 " " U { o r v q o u " q h " u m k p " c p f " g { g " e q p v c e v " o c { " k p e n w f g " t g f p g u u " c p f " k t t k v c v k q p 0 " " K p i g u v k q p " o c { " e c w u g " u v q o c e j " r c k p u . " e t c o r u . " c p f " i c u v t k v k u 0 "

F g n c { g f < " R t q n q p i g f " q t " t g r g c v g f " u m k p " q x g t g z r q u w t g " v q " v j k u " r t q f w e w " o c { " e c w u g " f g t o c v k v k u " \* f t { . " t g f " u m k p + 0 " " U { o r v q o u " o c { " k p e n w f g " v k p i n k p i . " t g f p g u u . " c p f " x k u k d n g " k p l w t { 0 "

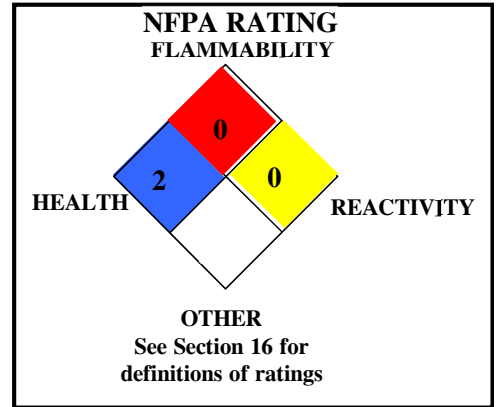
605" Kpfkecvkqp"Qh"Ko o g f k c v g " O g f k e c n " Cwgpvkqp"Cpf"Urgckn"Vtgcvo gpv"Pgfgf." Kh" Pgeguuct{<"

**TARGET ORGANS:**""Cewvg<""Umkp."g{gu."tgurktcvqt{"u{uvgo0" E j t a p k e < " " U m k p . " g { g u . " t g u r k t c v q t { " u { u v g o "

Xkevko"u"qh"ejgokecn"gzrquwtg"owuv"dg"vcmgp"ht"ogfkecn"cwgpvkqp"kh"cp{"cfxgtug"ghhgevu"qewt0""Tguewgtu"ujqwnf"dg"vcmgp"ht"ogfkecn" cwgpvkqp"kh"pgeguuct{0""Vcmg"ceqr{"qh"ncdgn"cpf"UFU"vq"rj{ukekcp"qt"jgcnvj"rtqhgukqpcn"ykvj"xkevko0"

## 5. FIRE-FIGHTING MEASURES

Hnc o ocdng"rtqrgtkvku" Pqp/hnc o ocdng" cswgqwu"  
uqmwkqp"



Cwvq"kipkvkqp"Vg o rgtcvwtg"qE<"" Pqv"cr rnkcedng0"

Hnc o ocdng"Nk okvu"\*kp"ckt"d{"xqnw o g." ' <"  
Wrrgt<"" Pqv"cr rnkcedng0"  
"Nqygt<"" Pqv"cr rnkcedng0"

- 703" Uwkvcdng"Cpf"Wpuwkvcdng"  
Gzvkpiwkujkpi"Ogfkc<"  
Vjku" o cvgtkcn" yknn"pqv" eqpvtkdwvg"vq" vjg" kpvpgpukv{" qh" c" hktg0" " Wug" gzvkpiwkujkpi"  
o cvgtkcn"uwkvcdng"vq"vjg"uwttqwpfki" hktg0"  
Y cvgt"urtc{" [ GU" Ectdqp"fkqzkg" [ GU"  
Hqc o" [ GU" Ft{"e j g o kecn" [ GU"  
J cnqp" [ GU" Qv jgt" [ GU"
- 704" Urgekhe" Jc|ctfu"Ctkukpi"Htq o"Ejg o kecn<"  
Y jgp" kpxqnxgf" kp" c" hktg." vjku" o cvgtkcn" o c{" fgeq o rqug" cpf" rtqfweg" ktkvcvkpi"  
hw o gu" cpf" vqzke" icugu" \*g0i0." ectdqp" o qpqzkgf." ectdqp" fkqzkgf." r jqr jqtqwu"  
qzkgfu."cpf"pkvtq igp"qzkgfu+0"  
Gzrnukqp"Ugpukvkv{"vq"Ogejcpkecn"K o rcey<"" Pqv"cr rnkcedng0"  
Gzrnukqp"Ugpukvkv{"vq"Uvcvke" Fkuejctig<"" Pqv"cr rnkcedng0"
- 705" Urgekn"Rtqvgevkxg"Gswkr o gpv"Cpf"  
Rtgecwkkqp"Hqt"Hktg/Hki jvgtu<"  
Kpek r kgpv" hktg" tgurqpfgtu" u j qwnf" y gct" g { g" r tqvgevkqp0" Uvtwewtcn" hktghki jvgtu" o wuv"  
y gct" Ugnh/Eqpvckpgf" Dtcgvj kpi" Cr rctcvwu" cpf" hwnm" r tqvgevkxg" gswkr o gpv0" Oqxg"  
eqpvckpgtu" htq o" hktg" ctgc" kh" kv" ecp" dg" f qpg" y kv j qvw" tkum" vq" rgtuqppgn0" Kh" rquukdng."  
rtgxp" twpqhh" y cvgt" htq o" gpygtkpi" uvqt o" ftckpu." dqfkgu" qh" y cvgt." qt" qv jgt"  
gp xktqp o gpcnm {"ugpvkxg" ctgcul0"

## 6. ACCIDENTAL RELEASE MEASURES

- 803" Rgtuqpcn"Rtgecwkkqp"  
Wpeqpvtqngf" tngcugu" u j qwnf" dg" tgurqpfgf" vq" d {" vtckpgf" rgtuqppgn" wukpi" rtg/  
rncppgf" r tqeg fwtgu0" Rtqrgt" r tqvgevkxg" gswkr o gpv" u j qwnf" dg" wugf0" Kp" ecug" qh" c"  
urknn." engct" v j g" chhgevgf" ctgc" cpf" r tqvge" rgqrng0"
- Rtqvgevkxg" gswkr o gpv" Hqt" u o cmn" tngcugu" \* > " 42" N+." engcp" wr" urkngf" nkswkf" y gctkpi" inqxgu." iqi ingu."  
hcegu j kgnf." cpf" uwkvcdng" dqf {" r tqvgevkqp0" Vjg" o kpk o w o" Rgtuqpcn" Rtqvgevkxg"  
Gswkr o gpv" tgeq o o g p f g f" hqt" tgurqpug" vq" pqp/ kpek f g pvcn" tngcugu" \* o qtg" v j cp" 42"  
N+ u j qwnf" dg" Ngxgn" E< vtrng/ inqxgu" \*pgqrtpg" inqxgu" cpf" pkvtkng" inqxgu" qxgt  
ncvgz" inqxgu+." e j g o kecn" t g u k u c p v" u w k v" c p f" d q q v u . " j c t f" j c v . c p f" h w n n / h c e g" t g u r k t c v q t  
y kv j" cekf" o kuv" cpf" J GRC" hknvgt0"
- Gogtigpe {" r tqeg fwtgu" Oqpkvqt kpi" o wuv" kpfkecvg" v j c v" g z r q u w t g" n g x g n u" c t g" d g n q y" v j q u g" r t q x k f g f" k p"  
Ugevkqp" : " \* Gz r q u w t g" E q p v t q n u / R g t u q p c n" R t q v g e v k q p + " c p f" v j c v" q z { i g p" n g x g n u" c t g"  
cdq x g" 3 ; 0 7 ' ' " d g h q t g" c p { q p g" k u" r g t o k v v g f" k p" v j g" c t g c" y k v j q w w" U g n h / E q p v c k p g f"  
D t g c v j k p i" C r r c t c v w u 0 ""
- 804" Ogvjqfu" cpf" Ocvgtkcnu" hqt" Eqpvckp o gpv"  
cpf" Engcpki" Wr"  
Xceww o" qt" uqcm/ " wr" uqnkfu" nkswkf" hqt" tgeqxtg { | f k u r q u c n 0 " P g w v t c n k | g" t g u k f w g"  
y kv j" uqfkw o" dkectdqpcvg" qt" qv jgt" pgwvtcnk | kpi" c i g p v" hqt" fknwge" cekfu0"  
Fgeqpic o kpcvg" v j g" c t g c" v j t q w i j n { 0 "" V g u v" c t g c" y k v j" n k v o w u" r c r g t" v q" g p u w t g"  
p g w v t c n k | c v k p 0 "" R n c e g" c m" u r k n n" t g u k f w g u" k p" c" u w k v c d n g" r n c u v k e" e q p v c k p g t 0 "" F k u r q u g"

## 7. HANDLING and STORAGE

- 903 Rtgecwkkqpu"ht"Uchg"Jcpfnkpi" Cm"gornq{gguyjq"jcpfnng"vjk"o"cvgtkcn"ujqwnf"dg"vtckpgf"vq"jcpfnng"kv"uchgn{"Qrgp"eqpvckpgtu" ectghwnn{"qp"cu"uwcng"uwthceg" Gornv{"eqpvckpgtu"oc{"eqpvckp"tgukfwcn"nkswkf="vjgtgqhg." gornv{"eqpvckpgtu"ujqwnf"dg"jcpfnng"ykvj"ectg" Cu"ykvj"cm"ejgokecu."cxqkf"igvkwpi"vjk"rtqfwev"QP" [QW"qt"KP" [QW0"Ycu"vjqtqwi"jn{" chvgt"jcpfnkpi"vjk"rtqfwev" Fq"pqv"gcvt"ftkpm"yjkng"jcpfnkpi"vjk"ocvgtkcn" Cxqkf" igpgtcvki"fwuv"qh"vjk"rtqfwev" Tgoqxg"eqpvckpgf"enqv"jki"ko"ogfkvcgn{" Fwtkpi"gswo"gpv"ockpvpcpeg"hqmqy"rtcevegu"kp"Ugevkqp"8"\*Ceekfgpvcn" Tngcug" Ogcuwgu"vq" fgeqpvckpgf" gswk"ogpv"qt"engcp/wr"uocmn"urknul" Ocmg"egtvckp"vjc" crnrkeckqp"gswo"gpv"ku"nqemgf"cpf"vc"igf/qwv"uchgn{"kh"pgeguuct{"Eqmgev"cm"tkpucvgu"cpf" fkurqg"qh"ceeqtfcpi"vq"crnrkecdng"W0U0"Hgfgtcn."Uvcvg."qt"nqecn"rtqegfwtgu"qt"crrtqrktcvgn" nqecn"uvcpfctfu"
- 904 Eqpfkqpu"Hq"Uchg"Uvqtcig" Uvqtc"eqpvckpgtu"kp"ceeqn."ft{"nqecvkv."cyc{"htq"o"ftkgev"uwpnk"jv."uqwtegu"qh"kpvpug"jgc."qt" yjgtg"htg|kpi"ku"rqukdng" Uvqtc"yc{"htq"o"kpq"o"rcvkdng"ocvgtkcn" Ocvgtkcn"ujqwnf"dg" uvqtc"kp"ugeqpfct{"eqpvckpgtu."qt"kp"cu"fkmgf"ctgc."cu"crrtqrktcvgn" Uvqtcig"cpf"wg"ctgc" ujqwnf"dg"eqxgtg"ykvj"ko"rgtkqwu"ocvgtkcn" Mgr"eqpvckpgt"vki"jn{"enqvg"y"jgp"pq"kp" wug" Kh"crrtqrktcvgn."rqv"yctkpi"ukipu"kp"uvqtcig"cpf"wg"ctgc" Kpurgev"cm"kpq"okpi" eqpvckpgtu"dghqg"uvqtcig."vq"gpwgt"eqpvckpgtu"ctg"rtqrgtn{"ncdngf"cpf"pq"fcocigf" Kpeq"o"rcvkdng" Uvtqi"dcugu."qzfk|gtu."cpf"yvcgt"tgevkxg"ocvgtkcn"

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

:03 Eqpvqpn"Rctc"ogvgtu"

EJGOKECN"PCOG"	ECU"%"	"yly"	GZRQUWTG"NK0IVU"KP"CKT"					QVJGT"
			CEIKJ/VNX"		QUJC/RGN"			
			VYC" oilo <sup>5</sup> "	UVGN" oilo <sup>5</sup> "	VYC" oilo <sup>5</sup> "	UVGN" oilo <sup>5</sup> "	KFNJ" oilo <sup>5</sup> "	
kpqtcpk"rjqurjqtqwu" eqo"rqp"p"	Rtqrktcvct{"	47"/57"	3"	5"	3"	5"	3222"	PKQUJ"TGNC" VYC"?3" UVGN"?5"
Ejgncvg"	Rtqrktcvct{"	47"/57"	PG"	PG"	PG"	PG"	PG"	PG"
Qticpk"cekf"	Rtqrktcvct{"	32"/42"	PG"	PG"	PG"	PG"	PG"	PG"
Ycvgt"cpf"qvjgt"eqo"rqp"p" yjkej"ctg"rtgugpv" kp"nguu"vjcp"3"rgtegpv"eqpegvckvqp"203" " eqpegvckvqp" hq" rvgpikc" ectekpqigpu." tgrtqfwevkg"vqzku."tgurktcvct{"vce"ugpvk gtu" cpf"owcigpu"0	Dncpeg"		Pqpg"qh"vjg"qvjgt"eqo"rqp"p"eqpvtkdvg"uk"iphkcpv"cf"fkvqpcn"j"ctfu"cv"vjg"eqpegvckvqp"rtgugpv"kp" vjk"rtqfwev" Cn"rgtkvpgpv"j"ctfu"kpqht"o"cvkpv"j"cu"dggp"rtqkxgf"kp"vjk"fqew"ogpv."rgt"vjg"tgswtg"ogpv" qh"vjg"Hgfgtcn"Qeewrckvqpcn"Uchgv{"cpf"Jgmv"J"cf"okpvckvqp"Uvcpfctf"4;"EHT"3;3203422+"W0U0" Uvcvg"gswxncgpv"Uvcpfctfu"cpf"Ecpcfkcp"Yqtmrnceg"J"ctfu"Uvcvg"Kfgpvkckvqp"U"vug"o" Uvcpfctfu"ERT"6"0					

:04 Crrtqrktcvgn"Gpikpggtkpi"Eqpvqpu"

Wug"ykvj"cf"gswev" xgpvckvqp"vq"gpwgt"gzrquwtg"ngxgnu"ctg"ockpvckpgf"dgny"vjg" nkoku"rtqkxgf"kp"vjk"Ugevkqp"qt"cu"nqy"cu"tgcupcdn{"rtcevekn" Gpuwtg" gfy"cu"j"luchgv"ujqygt"uvcvqpu"ctg"cxkncdng"pgct"ctgu"y"jgtg"vjk"rtqfwev"ku"wg"0"

:05 Rgtuqpcn"Rtqvevkxg"Gswk"ogpv"

Tgurktcvct{"rtqvevkqp"

Pqpg"pgfgf"wpfgt"pqt"ocn"eqpfkqpu"qh"wg"0" Wug"PKQUJ"cr"rtqxf"tgurktcvct"kh" xgpvckvqp"ku"kp"cf"gswev"vq"eqpvqpn"okuv"qt"xcrt"0"Kh"tgurktcvct{"rtqvevkqp"ku"pgfgf." wug"qpn{"rtqvevkqp"cwj"qtk|gf"kp"vjg"W0U0"Hgfgtcn"QUJC"Uvcpfctf"4;"EHT"3;320356+" crnrkecdng"W0U0"Uvcvg"tg"i"wnvckvqp."qt"vjg"crnrkecdng"nqecn"uvcpfctfu" Qz{igp"ngxgnu"dgny"3;07" "ctg"eqpvckvqp"KFNJ"d{"QUJC"0"kp"uwej"cv"o"qur"jgtgu." wug"qh"cu"hwmm/hceg"rkge"rtguuwtglf"ogcpf"UEDC"qt"cu"hwmm/hceg"rkge."uwrrnkf"ckt" tgurktcvct"ykvj"cwzknct{"ugnh/eqpvckpgf"ckt"uwrrn{"ku"tgswtg"wpfgt"QUJC"0" Tgurktcvct{"Rtqvevkqp"Uvcpfctf"3;320356/3;;:0"

G{g"rtqvevkqp" Wug"cr"rtqxf"uchgv{"iqi"ingu"qt"uchgv{"incuu."cu"fguetkdgf"kp"QUJC"4;"EHT"3;320355"0"Urnacuj"iqi"ingu"ykvj"cu"hegu"jkgnf"oc{"dg"pgfgf"kh"urnacuj"j"ctfu"gzku"0"

J c p f " r t q v g e v k q p < " " Y g c t " e j g o k e c n " k o r g t x k q w u " i n q x g u " \* g 0 i 0 . " U q n x g z Î . " P g q r t g p g + 0 "

D q f { " r t q v g e v k q p < " " k h " p g g f g f . " w u g " d q f { " r t q v g e v k q p < " r r t q r t k c v g " h q t " v c u m " \* g 0 i 0 . " V { x g m Î " u w k v . " t w d d g t " c r t q p + " v q " r t q v g e v " h t q o " u r n c u j g u " c p f " u r t c { u 0 "

## 9. PHYSICAL and CHEMICAL PROPERTIES

C r r g e t c p e g "	V j k u " r t q f w e v " k u " c " e n g c t . " e q n q t n g u u " v q " c o d g t " n k s w k f 0	
Q f q t "	N k i j y " f k u k p h g e v c p v " q f q t "	Q f q t " V j t g u j q n f "
H t g g   k p i " R q k p v " 9 E " "	> " 2 "	r J " * 4 ' " u q n w v k q p + "
K p k v k c n " D q k n k p i " R q k p v " 9 E " "	@ 3 2 2	D q k n k p i " R q k p v " T e p i g " 9 E "
H n c o o c d k n k v { "	P q p / h n c o o c d n g	G x c r q t c v k q p " T c v g " * y c v g t " ? " 3 + "
X c r q t " F g p u k v { " * c k t " ? " 3 + "	> 3	X c r q t " R t g u u w t g " o o " J i " B " 4 2 Å E < "
U q n w d k n k v { " * k p " y c v g t + "	U q n w d n g	T g n c v k x g " f g p u k v { " * y c v g t " ? " 3 + "
X k u e q u k v { "	U k o k n c t " v q " y c v g t	Q k n / Y c v g t " R c t v k v k q p " E q g h h k e k g p v "
F g e q o r q u k v k q p " V g o r g t c v w t g "	P G "	P I C "
J q y " V q " F g v g e v " V j k u " U w d u v c p e g "	N k v o w u " r c r g t " y k n n " v w t p " t g f " k p " e q p v c e v " y k v j " r t q f w e v 0 "	U k o k n c t " v q " y c v g t "
* Y c t p k p i " R t q r g t v k g u < " "		3 : " / " 4 2 "
		3 0 5 / 3 0 6 "
		P I C "

## 10. STABILITY and REACTIVITY

3 2 0 3 "	T g c e v k x k v { "	P q v " e q p u k f g t g f " t g c e v k x g 0 " "
3 2 0 4 "	E j g o k e c n " U v e d k n k v { "	U v e d n g "
3 2 0 5 "	R q u u k d k n k v { " q h " j c   c t f q w u " t g c e v k q p u "	J c   c t f q w u " r q n { o g t k   c v k q p " y k n n " p q v " q e e w t 0 "
3 2 0 6 "	E q p f k v k q p u " v q " c x q k f "	C x q k f " o k z k p i " y k v j " k p e q o r c v k d n g " o c v g t k c n u 0 " "
3 2 0 7 "	k p e q o r c v k d n g " O c v g t k c n u "	U v t q p i " d c u g u . " q z k f k   g t u . " c p f " y c v g t " t g c e v k x g " o c v g t k c n u "
3 2 0 8 "	J c   c t f q w u " F g e q o r q u k v k q p " R t q f w e v u "	V j g t o c n " f g e q o r q u k v k q p " q h " v j k u " r t q f w e v " o c { " i g p g t c v g " p k v t q i g p " q z k f g u . " e c t d q p " o q p q z k f g . " r j q u r j q t q w u " q z k f g u . " c p f " e c t d q p " f k z k f g 0 "

## 11. TOXICOLOGICAL INFORMATION

V q z k e v { " f c v " h q t " j c   c t f q w u " k p i t g f k g p u "	Q t c n " N F 7 2 " o i l m i "	F g t o c n " N F 7 2 " o i l m i "	k p j c n e v k q p " N F 7 2 " o i l m i "
k p q t i c p k e " r j q u r j q t q w u " e q o r q w p f "	N F 7 2 " * q t c n . " t c v + " ? " 3 9 7 ; " o i l m i "	N F 7 2 " * f g t o c n . " t c d d k v + " ? " 5 3 6 ; o i l m i "	P I C "
	U v e p f c t " F t c k   g " V g u v " * U m k p / T e d d k v . " c f w m + " 7 ; 7 " o i l 4 6 " j q w t u < " U g x g t g " k t t k v e k q p " g h h g e v u "		
	U v e p f c t " F t c k   g " V g u v " * G { g " g h h g e v u / T e d d k v . " c f w m + " 3 3 ; " o i < " U g x g t g " k t t k v e k q p " g h h g e v u "		
	V F N q " * Q t c n / O c p + " 3 4 : 8 " o N l m i "		
	N F N q " * W p t g r q t v g f / O c p + " 4 4 2 " o i l m i "		
E j g n c v g "	N F 7 2 " * k p v t c r g t k v q p g c n / T c v + " 3 7 6 : " o i l m i < " D g j c x k q t c n " e a p x w n u k q p u " q t " g h h g e v " a p " u g k   w t g " v j t g u j q n f - " N w p i u . " V j q t c z . " q t " T g u r k t c v k q p < " e { c p q u k u - " I c u v t q k p v g u k p c n < " e j c p i g u " k p " u v t w e w t g " q t " h w p e v k q p " q h " u c n x c t { " i n c p f u "	P I C "	P I C "
	U v e p f c t " F t c k   g " V g u v " * U m k p / T e d d k v . " c f w m + " 7 2 2 " o i l 4 6 " j q w t u < " O q f g t c v g " k t t k v e k q p " g h h g e v u "		
	U v e p f c t " F t c k   g " V g u v " * G { g / T e d d k v . " c f w m + " 3 ; 2 2 " o i m "		
	U v e p f c t " F t c k   g " V g u v " * G { g / T e d d k v . " c f w m + " 3 2 2 " o i l 4 6 " j q w t u < " O q f g t c v g " k t t k v e k q p " g h h g e v u "		
Q t i c p k e " c e k f "	N F 7 2 " * Q t c n / T c v + " 5 " i l m i " "	N F 7 2 " * f g t o c n . " t c d d k v + " @ " 4 2 2 2 " o i l m i "	P I C "
	N F 7 2 " * Q t c n / O q w u g + " 7 2 6 2 " o i l m i " "		
	N F 7 2 " * k p v t c r g t k v q p g c n / T c v + " : : 5 " o i l m i " "		
	N F 7 2 " * k p v t c r g t k v q p g c n / O q w u g + " ; 2 5 " o i l m i " "		
	N F 7 2 " * U w d e w c p g q w u / T c v + " 7 7 2 2 " o i l m i " "		
	N F 7 2 " * U w d e w c p g q w u / O q w u g + " 4 9 2 2 " o i l m i " "		
	N F 7 2 " * k p v t c r g t k v q p g c n / O q w u g " N F 7 2 < ; 2 5 " o i l m i " "		
	N F 7 2 " * k p v t c x g p q w u / T e d d k v . " c f w m + " 5 5 2 " o i l m i " "		
	N F 7 2 " * k p v t c x g p q w u / O q w u g + " 6 4 " o i l m i " "		



Vtcurqtv"ncdgn\*u+"tgswtgf" Pqv"tgi wncvgf  
 Rcemkpi" I tqwr" Pqv"tgi wncvgf  
 Rcemkpi"Kpuvtwekqpu" Pqv"tgi wncvgf

**International Maritime Organization**

360;" WP"Pwodgt" Pqv"tgi wncvgf  
 WP"Rtqrgrt"Ujkrkpi" Pcog" Pqv"tgi wncvgf  
 Vtcurqtv" Jc|ctf"Encuu\*gu+" Pqv"tgi wncvgf  
 Vtcurqtv"ncdgn\*u+"tgswtgf" Pqv"tgi wncvgf  
 Rcemkpi" I tqwr" Pqv"tgi wncvgf  
 Octkpg"Rqnnwvcpv" Pqv"tgi wncvgf  
 PC"Gogtipe{"Tgurqpu" I wkg" Pqv"tgi wncvgf  
 Pwodgt"\*4234+"  
 Vtcurqtv"kp"Dwnm"\*Cpvgz"KK"qh" Pqv"tgi wncvgf  
 OCTRQN"9519:"cpf"KDE"Eqfg+"

**15. SAFETY, HEALTH and ENVIRONMENTAL REGULATIONS  
 SPECIFIC FOR THE PRODUCT**

RTQITCO"	Kpqt icpk" Rjqur jqtqwu" Eqo rqpwf"	Ej gncvg"	Qt icpk" Cekf"			
<b>WU"GRC"RTQITCOU"</b>						
Engcp"Ckt"Cev" Jc ctfqwu" Ckt"Rqnnwvcpvu"	PQ"	PQ"	PQ"			
Uchg" Ftkpmkpi" Ycvgt" Cev"	PQ"	PQ"	PQ"			
TETC"H.M."R."W"qt" F/nkuvu	PQ"	PQ"	PQ"			
Grc"Rtkqtkv{"Rqnnwvcpv"	PQ"	PQ"	PQ"			
UCTC"524" TS "	PQ"	PQ"	PQ"			
UCTC"524" VRS "	PQ"	PQ"	PQ"			
UCTC"535"NKUVGF"	[ GU"	PQ"	PQ"			
<b>UCTC"EJGOKECN"ECVGIQTKGU"</b>						
UCTC"533I534"CEWVG"	PQ"	PQ"	PQ"			
UCTC"533I534" EJTQPKÉ"	PQ"	PQ"	PQ"			
UCTC"533I534"HKTG"	PQ"	PQ"	PQ"			
UCTC"533I534" RTGUUWTG"	PQ"	PQ"	PQ"			
UCTC"533I534" TGCEVKKXKV [ "	PQ"	PQ"	PQ"			
GRC"GZVTGOGN [ " JC \ CTFQWU" UWDUVCPEG"	PQ"	PQ"	PQ"			
<b>ECNKHQTPKC"UCHG"FTKPMKPI" YCVGT"CEV"*Rtqrqkvkqp"87+" Vjku"rtqfwev"fqgu"pq"eqpvckp"cp{"ejgokecn"nkuv"gf"qp"vjg"Ecnkhtpkc"Uchg" Ftkpmkpi" Ycvgt" Cev"nkuv"*Rtqrqkvkqp"87+"</b>						
<b>WU"QUJC"RTQITCOU"</b>						
RGN"	PQ"	PQ"	PQ"			
RUO"	PQ"	PQ"	PQ"			
<b>EJGOKECN"UGEWTKV [ "RTQITCOU"</b>						
FJU"EHCVVU"	PQ"	PQ"	PQ"			
<b>EJGOKECN"YGCRQPU"EQPXGPVKQP"</b>						
	PQ"	PQ"	PQ"			
<b>WU"FTWI"GPHQTEGOGPV"CFOKPKUVTCVKQP"</b>						
FGC"Eqvtqngf" Uwduvcegu"	PQ"	PQ"	PQ"			
<b>EJGOKECN"KPXGPVQT [ "RTQITCOU"</b>						



Y J OKU"	PQ"	PQ"	PQ"			
FUN"	[ GU"	[ GU"	[ GU"			
TGCE J "Rtg/tg ikuvgtgf" Nkuv"	[ GU"	[ GU"	[ GU"			
VUEC"	[ GU"	[ GU"	[ GU"			
Gwtqrgcp"kp xgpvt {"qh" Gzkuvkpi "Eq o o gtekcn" Ejg o kecn "Uwduvcpegu" *GKPGEU+"	[ GU"	[ GU"	[ GU"			
GW" Pq/Nqpi gt "Rqn { ogtu" Nkuv *PNR+ "	P1C"	P1C"	P1C"			
GGE "Encuukhkecvkqp" Reemcikpi .cpf "Ncdgnkpi " qh "Fcpigtqwu "Uwduvcpegu" *Cp pgz "3+ "	Eqttqukxg"	PQ"	PQ"			
Rjknkr rkpgu"	[ GU"	[ GU"	[ GU"			
Lcr cp"	[ GU"	[ GU"	[ GU"			
Cwuvtnkc"	[ GU"	[ GU"	[ GU"			
Mqtgc"	[ GU"	[ GU"	[ GU"			
Ej kpc"	[ GU"	[ GU"	[ GU"			
Pgy "\ gcn cpf "kp xgpvt {"qh" Ejg o kecnu"	[ GU"	[ GU"	[ GU"			

## 16. OTHER INFORMATION

3803" Qtkilpcn "Rtgrctcvkqp" Lwn {"4."3; ; ;"  
3804" Tgxkukqp "J kuvqt {" Hgdtwct {"3; .4226."4: "Lwpg"4235=" I J U"wr fcvg"  
Oc {"46."4238."Eqpvgpv"eqttgevkqpu="45" Cwi "4238."kphqt o cvkqp"wr fcvg."  
hqt o cv"ejcpigu"  
3805" Rtgrctgf "d {" lmt

